Subject Index to Volume 12

Acidic metabolites, effect of amphetamine, 577ff
  effect of chlordiazepoxide, 577ff
Acknowledgment, 475
Acute psychosis, creatine phosphokinase levels, 589ff
Adenine nucleotides, and behavioral activity, 305ff
  in gout, 305ff
Adenosine triphosphatase activity in depression, 75ff
  effect of electroconvulsive therapy, 75ff
Affective disorder, catechol-*O*-methyltransferase activity, 237ff
  effect of prostaglandin F, 347ff
Alcohol, effect on neonatal health, 495ff
  withdrawal syndrome, effect of electroconvulsive shocks, 479ff
Alcoholism, homovanillic acid levels, 635ff
Alternating current, compared with pulse electrotherapy, 525ff
γ-Aminobutyric acid, pharmacology of, 359ff
  turnover rate in telencephalon nuclei, 359ff
Amphetamine, effect on acidic metabolites, 577ff
  and stereotypy, 381ff
  effect on 6-hydroxydopamine hyperactivity in rats, 133ff
  effect on neurotransmitters, 451ff
d-Amphetamine, effect on EEG, 787ff
  effect on hyperactivity, 719ff
  inhibition of platelet MAO in schizophrenia, 655ff
Amygdalotomy, effect on behavior, 401ff
  effect on seizures, 401ff
Anorexia nervosa, liver and pancreas dysfunction, 681ff
Antidepressants, compared with electroconvulsive therapy, 507ff
  efficacy in depression, 507ff
Antiparkinsonian drugs, effect on neuroleptic levels, 389ff
Antipsychotic drugs, and norepinephrine, 181ff
Apomorphine, effect on hyperactivity, 719ff
Arousal, and psychopathy, 49ff
Assertive training, in asthma, 593ff
Associate processes, 701ff
Asthma, comparison of relaxation and assertive training, 593ff
Attractiveness, role in phylogenetic adaptation, 487ff

Behavior, effect of amygdalotomy, 401ff
  effect of brain polarization, 37ff
  effect of clozapine, 613ff
  in Rubinstein-Taybi syndrome, 413ff
Behavioral activity, and adenine nucleotides, 305ff
Benzodiazepine, in hypertension, 597ff
Books received, 473
Brain polarization, behavioral effects, 37ff
  therapeutic effects, 37ff
Broad thumb-hallux syndrome, *see* Rubinstein-Taybi syndrome

Calcium, in depression, effect of electroconvulsive treatment, 5ff
Callosal transmission speed, and verbal reaction time, 289ff
Cardiovascular function, effect of marijuana, 255ff
Catechol-*O*-methyltransferase in affective disorder, 237ff
Cerebellar neuronal circuitry, and antipsychotic drugs, 181ff
Chlordiazepoxide, effect on acidic metabolites, 577ff
Chlorpromazine, effect on synaptic vesicles of hypothalamus, 323ff
  versus electroconvulsive treatment in mania, 245ff

This journal is copyrighted by Plenum. Each article is available for $7.50 from Plenum Publishing Corporation, 227 West 17th Street, New York, N.Y. 10011.

Clozapine, effect on sleep, 801ff
effect on behavior, 613ff
effect on EEG, 613ff
effect on schizophrenia, 613ff
Contingent negative variation, as measure of motivation, 701ff
Correspondence, 463ff
Creatine phosphokinase, in acute psychoses, 589ff
effect of limb restraints, 743ff

Depression, biochemistry of, 101ff
calcium level, effect of electroconvulsive treatment, 5ff
effect of electroconvulsive treatment on adenosine triphosphatase, 75ff
efficacy of antidepressants, 507ff
electroconvulsive therapy, 507ff, 687ff
Diabetes, and nocturnal erections, 373ff
3,4-Dimethyloxyphenethylamine in schizophrenia, 643ff
N,N-Dimethyltryptamine, effect on EEG, 757ff
effect on shuttle box avoidance, 339ff
Disulfiram, effect on homovanillic acid, 635ff
Dopamine receptors, lithium inhibition of, 563ff
Drugs, centrally active, effect on tyramine-binding by synaptosomes, 661ff

Editorial, 1ff, 157f, 321f, 477, 611, 709
EEG, effect of clozapine, 613ff
Electroconvulsive treatment, effect on adenosine triphosphatase, 75ff
effect on alcohol withdrawal syndrome, 479ff
effect on calcium in depression, 5ff
of depression, 507ff, 687ff
versus chlorpromazine treatment in mania, 245ff
Electroencephalogram, effect on dextroamphetamine, 787ff
effect of *N,N*-dimethyltryptamine, 757ff
effect of methylphenidate, 787ff
Erections, nocturnal, and diabetes, 373ff
and impotence, 373ff
Evoked potentials, in schizophrenia, 221ff
Evoked responses, in manic-depressive psychosis, 83ff

Fluorescence in leukocytes and platelets, 823ff

Genetics, of manic depressive psychosis, 733ff
and tissue-binding factors in schizophrenia, 199ff
of nervous dogs, 573ff
of schizo-affective disorder, 331ff
Gout, adenine nucleotides, 305ff
Growth hormone, and indolethylamine-*N*-methyltransferase activity, 171ff

Homovanillic acid, in alcoholism, 635ff
effect of disulfiram, 635ff
γ-Hydroxybutyrate, effect on sleep, 273ff
β-Hydroxylation, and detoxification in schizophrenia, 583ff
6-Hydroxydopamine hyperactivity, effect of amphetamine, 133ff
Hyperactivity, effect of amphetamine, 133ff, 719ff
effect of apormophine, 719ff
effect of stimulant drugs, 787ff
produced by cerebral lesions, 719ff
Hypertension, benzodiazepine treatment, 597ff
Hypothalamus, synaptic vesicles, effect of chlorpromazine, 323ff

Impotence, and nocturnal erections, 373ff
Indolethylamine-*N*-methyltransferase, and growth hormone, 171ff
Infarction, cerebral, pharmacological treatment, 669ff

Leukocytes, fluorescence in psychiatric patients, 823ff
Lithium, effect on calcium, 145ff
effect on depression, 145ff
inhibition of dopamine receptors, 563ff
inhibition of norepinephrine receptors, 563ff
Liver dysfunction in anorexia nervosa, 681ff
Lymphocytes, effect of psychotropic agents, 159ff
T-Lymphocytes, blastogenic response, 159ff

Mania, chlorpromazine treatment, 245ff
and phencyclidine abuse, 697ff
electroconvulsive treatment, 245ff
Manic-depressive psychosis, evoked responses, 83ff
genetics, 733ff

Manic-depressive psychosis *(cont'd)*
onset of illness, 733ff
sleep study, 711ff
Marijuana, effect on cardiovascular function, 255ff
effect on psychology, 255ff
Mate selection, role in phylogenetic adaptation, 487ff
Methylphenidate, effect on EEG, 787ff
Monoamine oxidase, inhibition by *d*-amphetamine in schizophrenia, 655ff
Motivation, measured by contingent negative variation, 701ff
Motoneuron excitability, 545ff
Muscarinic acetylcholine receptor, effect of psychotropic drugs, 771ff

Neonatal health, effect of maternal alcohol, 495ff
Nervous dogs, genetics of, 573ff
longitudinal studies of, 573ff
Neuroleptics, effect of antiparkinsonian drugs, 289ff
Neurotransmitters, effect of amphetamine, 451ff
News and Notes, 153ff, 309ff, 467ff, 607ff, 707ff, 827ff
Nicotinamide, effect on sleep, 139ff
Norepinephrine, and antipsychotic drugs, 181ff
and cerebellar neuronal circuitry, 181ff
receptors, lithium inhibition of, 563ff

Pancreas dysfunction in anorexia nervosa, 681ff
Parathormone, effect on calcium, 145ff
effect on depression, 145ff
Parkinsonism, and tardive dyskinesia, 267ff
Phencyclidine abuse, and symptomatic mania, 697ff
Phylogenetic adaptation, role of attractiveness and mate selection, 487ff
Platelets, fluorescence in psychiatric patients, 823ff
Probenecid, induced accumulation of acidic metabolites, 577ff
Prostaglandin F, effect on affective disorder, 347ff
Psychopathy, and arousal, 49ff
Psychotropic drugs, effects on lymphocytes, 159ff
effect on muscarinic acetylcholine receptor, 771ff
Pulse electrotherapy, compared with alternating current, 525ff

Relaxation training, in asthma, 593ff
Rubinstein-Taybi syndrome, behavioral characteristics, 413ff

Schizo-affective disorder, genetics, 331ff
Schizophrenia, and epilepsy, 299ff
and training, 19ff
brain asymmetry, 19ff
detoxification by β-hydroxylation, 583ff
3,4-dimethyloxyphenethylamine excretion, 643ff
effect of clozapine, 613ff
etiology, 19ff
evoked potentials, 221ff
inhibition of platelet MAO by *d*-amphetamine, 655ff
prognosis, 19ff
tissue-binding factors in sera, 199ff
Seizures, effect of amygdalotomy, 401ff
Shuttle-box avoidance, effect of *N,N*-dimethyltryptamine in rats, 339ff
Sleep, effect of clozapine, 801ff
effect of γ-hydroxybutyrate, 273ff
effect of nicotinamide, 139ff
in manic-depressive psychosis, 711ff
Stereotypy, and amphetamine, 381ff
Stroke, psychological symptoms, 669ff
Synaptic vesicles of hypothalamus, effect of chlorpromazine, 323ff
Synaptosomes, effect of centrally active drugs on tyramine-binding, 661ff

Tardive dyskinesia, and Parkinsonism, 267ff
pathophysiology of, 431ff
Tissue-binding factors, in schizophrenia, 199ff
Tyramine-binding by synaptosomes, effect of centrally active drugs, 661ff

Verbal reaction time, and callosal transmission time, 289ff

CONTENTS

Vol. 12, No. 1 February 1977

Editorial: Pessimism and Optimism in Perspective 1

Calcium and Electroconvulsive Therapy of Severe Depressive Illness 5
John S. Carman, Robert M. Post, Frederick K. Goodwin, and William E. Bunney, Jr.

Schizophrenia, Brain Asymmetry Development, and Twinning: Cellular Relationship with Etiological and Possibly Prognostic Implications 19
Charles E. Boklage

Brain Polarization: Behavioral and Therapeutic Effects 37
Fernando Lolas

Psychopathy and Arousal: A New Interpretation of the Psychophysiological Literature 49
A. R. Mawson and Carol Deinhardt Mawson

Depression, ECT, and Erythrocyte Adenosinetriphosphatase Activity 75
Sin J. Choi, Michael A. Taylor, and Richard Abrams

Average Evoked Responses in a Rapidly Cycling Manic-Depressive Patient 83
Monte S. Buchsbaum, Robert M. Post, and William E. Bunney, Jr.

Significance of Biochemical Parameters in the Diagnosis, Treatment, and Prevention of Depressive Disorders 101
H. M. van Praag

BRIEF REPORTS

Amphetamine Reduction of Motor Adenocinetriphosphatase Activity Administration of 6-Hydroxydopamine 133
C. A. Sorenson, J. S. Vayer, and C. S. Goldberg

The Effects of Nicotinamide upon Sleep in Humans 139
Connie R. Robinson, G. Vernon Pegram, Pam R. Hyde, John M. Beaton, and John R. Smythies

Effects of Parathormone and Lithium Treatment on Calcium and Mood in Depressed Patients 145
Robert H. Gerner, Robert M. Post, Allen M. Spiegel, and Dennis L. Murphy

NEWS AND NOTES 153

Vol. 12, No. 2 **April 1977**

Editorial: The Sphere of Psychiatry 157

Effect of Psychotropic Agents upon the Blastogenic Response of Human T-Lymphocytes 159
Gordon A. Baker, Roberto Santalo, and Jan Blumenstein

Plasma Indolethylamine-*N*-Methyltransferase Activity and Growth Hormone Level During Sleep: A Pilot Study 171
Meir Strahilevitz, Ekkehard Othmer, N. Narasimhachari, Sieglinde C. Othmer, and L. S. Jacobs

Interactions of Antipsychotic Drugs with Norepinephrine and Cerebellar Neuronal Circuitry: Implications for the Psychobiology of Psychosis 181
Robert Freedman

Tissue-Binding Factor in Schizophrenic Sera: A Clinical and Genetic Study 199
Miron Baron, Max Stern, Romema Anavi, and Isaac P. Witz

Evoked Potentials of Schizophrenics in Several Sensory Modalities 221
Charles Shagass, John J. Straumanis, Jr., Richard A. Roemer, and Marco Amadeo

Erythrocyte Catechol-*O*-Methyltransferase Activity in Primary Affective Disorder 237
David L. Dunner, Morton Levitt, Turkan Kumbaraci, and Ronald R. Fieve

ECT *Versus* Chlorpromazine in Mania 245
Michael S. McCabe and Barbara Norris

Effect of Marijuana and Placebo-Marijuana Smoking on Psychological State and on Psychophysiological Cardiovascular Functioning in Anginal Patients 255
Louis A. Gottschalk, Wilbert S. Aronow, and Ravi Prakash

Coexisting Tardive Dyskinesia and Parkinsonism: A Case Report 267
Emanuel G. De Fraites, Jr., Kenneth L. Davis, and Philip A. Berger

The Effects of γ-Hydroxybutyrate on Sleep 273
Morty Mamelak, Joseph M. Escriu, and Olga Stokan

Can Callosal Speed of Transmission be Inferred from Verbal Reaction Times? 289
Marco Amadeo, Richard A. Roemer, and Charles Shagas

COMMENT
The Relationship Between Epilepsy and Schizophrenia: A Biochemical Hypothesis 299
Michael Trimble

BRIEF REPORT
Concentrations of Adenine Nucleotides in Erythrocytes of Patients with Gout 305
Yutaro Nishida, Tuneo Nishizawa, Toshihide Kagami, and Ieo Akaoka

NEWS AND NOTES 309

Vol. 12, No. 3 **June 1977**

Editorial: Psychiatry and the Carter Administration 321

Chlorpromazine Induces Population Increase of Synaptic Vesicles in the Rat Hypothalamic Ventromedial Nucleus 323
Hisanobu Kaiya, Tsyyoshi Iwata, Iwao Moriuchi, and Masuyuki Namba

A Family History Study of Schizo-Affective Disorder 331
Ming T. Tsuang, G. Michael Dempsey, Ann Dvoredsky, and Andrea Struss

Dose Response and Time Course Effects of N,N-Dimethyltryptamine (DMT) on Disruption of Rat Shuttlebox Avoidance 339
David M. Stoff, Egidio A. Moja, J. Christian Gillin, and Richard Jed Wyatt

Prostaglandin F in Patients with Primary Affective Disorder 347
Howard A. Gross, David L. Dunner, Dianne Lafleur, Herbert L. Meltzer, and Ronald R. Fieve

The Turnover Rate of γ-Aminobutyric Acid in the Nuclei of Telencephalon: Implications in the Pharmacology of Antipsychotics and of a Minor Tranquilizer 359
C. C. Mao, E. Marco, A. Revuelta, L. Bertilsson, and E. Costa

Nocturnal Erections, Differential Diagnosis of Impotence, and Diabetes 373
Ismet Karacan, F. Brantley Scott, Patricia J. Salis, Samuel L. Attia, J. Catesby Ware, Attila Altinel, and Robert L. Williams

Possible Mechanisms Involved in the Stereotyped Behavior Elicited by Amphetamine 381
Philip M. Groves

Influence of the Antiparkinsonian Drugs on the Plasma Level of Neuroleptics 389
J. Gautier, A. Jus, A. Villeneuve, K. Jus, P. Pires, and R. Villeneuve

Follow-Up of Stereotaxic Amygdalotomy for Seizure and Behavior Disorders 401
Iver F. Small, Robert F. Heimburger, Joyce G. Small, Victor Milstein, and Donald F. Moore

Behavioral Characteristics of Three Children with the Broad Thumb-Hallux (Rubinstein-Taybi) Syndrome 413
Edward E. Gotts and Wendell P. Lemohn

BRIEF REPORT

Pharmacogenetic Aspect of Red Blood Cell Lithium Index in Manic-Depressive Psychosis 425
Janusz Rybakowski

REVIEWS

The Pathophysiologic Basis of Tardive Dyskinesia 431
Daniel Tarsy and Ross J. Baldessarini

The Actions of Amphetamine on Neurotransmitters: A Brief Review 451
K. E. Moore

CORRESPONDENCE 463

NEWS AND NOTES 467

BOOKS RECEIVED 473

ACKNOWLEDGMENT 475

Vol. 12, No. 4 **August 1977**

Editorial: Scientific Method and Psychiatry 477

Intensification of the Alcohol Withdrawal Syndrome Following Periodic Electroconvulsive Shocks 479
J. P. J. Pinel and P. H. Van Oot

The Role of Attractiveness and Mate Selection in Phylogenetic Adaptation with Particular Reference to Early Man 487
Leon Sloman

Maternal Alcohol and Neonatal Health 495
W. A. Himwich, J. S. Hall, and W. F. MacArthur

The Efficacy of Electroconvulsive Therapy and Antidepressants in Depression 507
David Avery and George Winokur

A Comparison of Standard Alternating Current and Low-Energy Brief-Pulse Electrotherapy 525
Lelon A. Weaver, Jr., John O. Ives, Ronald Williams, and Alexander Nies

Motoneuron Excitability in Psychiatric Patients 545
John W. Crayton, Herbert Y. Meltzer, and David J. Goode

Lithium Inhibition of Norepinephrine and Dopamine Receptors 563
Abraham Flemenbaum

BRIEF REPORTS
Longitudinal Studies of Genetically Nervous Dogs 573
Oddist D. Murphree, Charles Angel, Donald C. DeLuca, and J. E. O. Newton

Effects of Amphetamine and Chloridiazepoxide on Probenecid-Induced Accumulation of Acidic Metabolites in the Cerebrospinal Fluid of the Dog 577
Donald C. DeLuca, Charles Angel, and Oddist D. Murphree

β-Hydroxylation as a Possible Detoxification Mechanism: Role in Schizophrenia 583
Bradley D. Evans and Wolfgang H. Vogel

Massive Creatine Phosphokinase Elevation with Acute Psychosis 589
John R. Taylor

A Comparison Between Relaxation and Assertive Training with Asthmatic Male Children 593
Robert A. Hock, Jean Bramble, and David W. Kennard

Why Physicians Prescribe Benzodiazepines in Essential Hypertension: A Phase IV Study 597
William E. Whitehead, Barry Blackwell, and Ann Robinson

IN MEMORIAM: Margaret Kennard 603

NEWS AND NOTES 607

Vol. 12, No. 5 **October 1977**

Editorial: Amniocentesis and the Defective Child 611

EEG Profile and Behavioral Changes After a Single Dose of Clozapine in Normals and Schizophrenics 613
J. Roubicek and I. Major

Cerebrospinal Fluid Homovanillic Acid in Male Alcoholics: Effects of Disulfiram 635
Leslie F. Major, James C. Ballenger, Frederick K. Goodwin, and Gerald L. Brown

Excretion of 3, 4-Dimethoxyphenethylamine (DMPEA) by Acute Schizophrenics and Controls 643
Arnold J. Friedhoff, Sanghae Park, Jack W. Schweitzer, Eugene I. Burdock, and Mary Armour

d-Amphetamine Inhibition of Platelet MAO from Schizophrenic Patients 655
Avinoam Reches, Richard P. Ebstein, and Robert H. Belmaker

Tyramine-Binding by Synaptosomes from Rat Brain: Effect of Centrally Active Drugs 661
Frieda Ungar and Aron D. Mosnaim

Pharmacological Treatment Following Experimental Cerebral Infarction: Implications for Understanding Psychological Symptoms of Human Stroke 669
R. G. Robinson and F. E. Bloom

Hepatic and Pancreatic Dysfunction in Anorexia Nervosa: A Report of Two Cases 681
L. Nordgren and C. von Schéele

COMMENT
ECT in Depression: The Evidence of Controlled Studies 687
J. L. Barton

BRIEF REPORTS
Phencyclidine Abuse and Symptomatic Mania 697
Phillip R. Slavney, Gerald B. Rich, Godfrey D. Pearlson, and Paul R. McHugh

Contingent Negative Variation as a Measure of Motivation in Investigation of Associative Processes 701
Małgorzata Nowakowska, Waldemar Szelenberger, and Hanna Wilczak-Szadkowska

NEWS AND NOTES 707

Vol 12, No. 6 **December 1977**

Editorial: Quotes Without Comment 709

An EEG Sleep Study of a Bipolar (Manic-Depressive) Patient with a Nocturnal Switch Process 711
J. Christian Gillin, Carolyn Mazure, Robert M. Post, David Jimerson, and William E. Bunney, Jr.

Small Doses of Apomorphine and Chronic Administration of *d*-Amphetamine Reduce Locomotor Hyperactivity Produced by Radiofrequency Lesions of Dopaminergic A10 Neurons Area 719
L. Stinus, O. Gaffori, H. Simon, and M. Le Moal

Onset of Illness in Bipolar Manic-Depressives and Their Affectively Ill First-Degree Relatives 733
G. F. S. Johnson and M. M. Leeman

Effect of Limb Restraints on Serum Creatine Phosphokinase Activity in Normal Volunteers 743
D. J. Goode, D. H. Weinberg, T. A. Mazura, G. Curtiss, R. J. Moretti, and H. Y. Meltzer

Spectral Analysis of Mouse EEG After the Administration of *N*-*N*-Dimethyltryptamine 757
Barbara J. Morley and Ronald J. Bradley

Blockade by Psychotropic Drugs of the Muscarinic Acetylcholine Receptor in Cultured Nerve Cells 771
Elliott Richelson and Silvia Divinetz-Romero

Changes in the Electroencephalogram Accompanying the Use of Stimulant Drugs (Methylphenidate and Dextroamphetamine) in Hyperactive Children 787
Walter W. Surwillo

A Psychophysiological Investigation of the Short-Term Effects of Clozapine Upon Sleep Parameters of Normal Young Adults 801
S. W. Touyz, P. J. V. Beumont, G. S. Saayman, and T. Zabow

BRIEF REPORT
Fluorescent Substance in Leukocytes and Platelets of Psychiatric Patients 823
Masao Mato, Yasuo Uchiyama, Kyoichi Kurihara, and Toshikazu Karaswa

NEWS AND NOTES 827

SUBJECT INDEX TO VOLUME 12 831